



ELECTRONIC TUBE REFERENCE

4220C

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled directly heated triode documented by Standard Valves for substantial power service; the available source summary does not specify a narrower application.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	22 V / 41 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	7500 Ω
TRANSCONDUCTANCE	0.0053 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	13000 V
MAXIMUM PLATE DISSIPATION	10000 W
MAXIMUM GRID DISSIPATION	200 W
MAXIMUM CATHODE CURRENT	1.5 A
Published ratings and characteristics promoted where directly established by the datasheet.	

The 4220C is a water-cooled triode described in the Standard Valves datasheet, using a directly heated filament cathode and published operating data.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Standard Valves

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1937 STANDARD VALVES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total emission	6 A	Published datasheet value
Grid-anode capacitance	205 pF	Published datasheet value
Anode-filament capacitance	3 pF	Published datasheet value
Grid-filament capacitance	20 pF	Published datasheet value

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mutual conductance	5300 μ S	Published characteristic; normalized from mA/V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-filament capacity	3 pF	Published interelectrode capacitance
Maximum direct anode current	1.5 A	Maximum safe operating rating